

FACULTY PROFILE

1. Name : Dr. S. RANGA SWAMY
2. Date of Birth : 29-05-1984
3. Educational Qualifications : M.Tech.,Ph.D
4. Work Experience (in years) 12
 - a) Teaching 12
 - b) Research : NIL
 - c) Industry : NIL
 - d) Others : NIL
5. Areas of Specialization : CLOUD COMPUTING, MACHINE LEARNING
6. Subject Taught at
 - a) Under Graduate Level : C, C++, ADS, JAVA, PPL, OS, CN, CNS, CC, SE, DM, STM
 - b) Post Graduate Level : DM&ADS, CN
7. Membership of Professional Societies/Academic Bodies : 4: MISTE, MIEI, IAENG, SDIWC
8. Achievements/ Awards : 1
9. Books : 2
10. Book Chapters :1, under process-6
11. Research Publications
 - a) National Journals : NIL
 - b) International Journals :21
 - c) International Conference :8
 - d) National Conference : NIL
12. FDP/Seminars/workshops/webinars:
 - a) Attended : 8
 - b) Conducted : 6
13. Patents : 6
14. Certification Programs : 9



Signature of the Faculty

MEMBERSHIPS:

1. Life member in ISTE(LM-ISTE)- Member No: LM 129834
2. Life member in Institution of Engineers (India)-IEI: M-1722055
3. Member in International Association of Engineers (IAENG)-Member No: 216377
4. Member in The Society of Digital Information and Wireless Communications (SDIWC)- ID: 23179

AWARDS:

1. Received indian achievers award in the field of “ Education Excellence” from indian achievers Forum.

➡ <https://www.iafindia.com/dr-ranga-swamy/>

BOOKS:

- 1) INTERNET OF THINGS- A Study, Published in LULU Publications-USA, ISBN: 9780359563067
<http://www.lulu.com/shop/dr-sasikumar-gurumoorthy-and-ranga-swamy-sirisati-andponguwala-maitreyi/internet-of-things-a-study/paperback/product-24050253.html>
- 2) INTRODUCTION TO MACHINE LEARNING- A PERSPECTIVE APPROACH, Shashwat Publication, Bilaspur. ISBN: 978-93-90761-21-0

BOOK CHAPTERS:

- 1) Dr. S. Ranga Swamy, "Analysis of Hybrid Fusion- Neural Filter Approach to detect Brain Tumor", 6th INTERNATIONAL CONFERENCE ON Parallel, Distributed and Grid Computing(PDGC-2020) , 06 to 08 November 2020, Jaypee University ,Himachal Pradesh. IEEE Proceedings- IEEE EXPLORE, <https://ieeexplore.ieee.org/document/9315809>

BOOK CHAPTERS PRINTING PROCESS:

1. Dr. S. Ranga Swamy, "Auto-adaptative Learning for Machine Perception of Native accent using Deep Learning", 1st International Conference on Mathematical Modeling and Computational Science (ICMMCS-2020), 14&15 August 2020, Thailand. -Advances in Intelligent Systems and Computing, <https://www.springer.com/series/11156> .
2. Dr. S. Ranga Swamy, "An Energy-efficient PSO based Cloud Scheduling Strategy", 8 th International Conference on Innovations in Computer Science and Engineering (ICICSE-2020), 28th & 29th August 2020, Gurunanak Institutions, Hyderabad. -Springer Proceedings- Lecture Notes in Networks and Systems, <https://www.springer.com/series/15179>
3. Dr. S. Ranga Swamy, "An aviation delay prediction and recommendation system using Machine Learning Techniques", 1st International Virtual Conference on Integrated Intelligence Enable Networks & Computing (IIENC-2020), 05 to 07 September 2020, Institute of Technology, Gopeshwar.- Springer Proceedings-Algorithms-for-Intelligent-Systems, <https://www.springer.com/series/16171>
5. Dr. S. Ranga Swamy, "An adaptive Deep learning model to forecast Crimes", 1st International Virtual Conference on Integrated Intelligence Enable Networks & Computing (IIENC-2020), 05 to 07 September 2020, , Institute of Technology, Gopeshwar. -Springer Proceedings-Algorithms-for-Intelligent-Systems, <https://www.springer.com/series/16171>

5. Dr. S. Ranga Swamy, "A Hybrid Clinical data Prediction approach using modified PSO", 4th INTERNATIONAL CONFERENCE ON SMART COMPUTING AND INFORMATICS (SCI-2020), 09&10 October 2020, Vasavi College of Engineering, Hyderabad. Springer Proceedings-Smart-Innovation, Systems and Technologies, <https://www.springer.com/series/8767>

6. Dr. S. Ranga Swamy, "Software defect prediction using optimized cuckoo search based nature inspired technique", 4th INTERNATIONAL CONFERENCE ON SMART COMPUTING AND INFORMATICS (SCI-2020), 09&10 October 2020, Vasavi College of Engineering, Hyderabad. Springer Proceedings- Smart Innovation, Systems and Technologies, <https://www.springer.com/series/8767>

RESEARCH PUBLICATIONS:

[1] Dr. Ranga Swamy Sirisati " AN EFFICIENT SKIN CANCER PROGNOSIS STRATEGY USING DEEP LEARNING TECHNIQUES", **Indian Journal of Computer Science and Engineering (IJCSE-2231-3850, 0976-5166)** , Volume12, Issue 1 (JAN-FEB-2021), (pp- 101-111)- **DOI:**[10.21817/indjcse/2021/v12i1/211201180](https://doi.org/10.21817/indjcse/2021/v12i1/211201180) **SCOPUS**.

[2] Dr. Ranga Swamy Sirisati " Machine Learning based diagnosis of Diabetic× Retinopathy using digital Fundus images with CLAHE along FPGA Methodology", International Journal of Advanced Science and Technology (**IJAST- 2005-4238**), Volume29, Issue 5 (JUNE-2020), (pp- 12748 - 12759)- **SCOPUS**.

[3] Dr. Ranga Swamy Sirisati "Dimensionality Reduction using Machine Learning and Big Data Technologies", International Journal of Innovative Technology and Exploring Engineering (**IJITEE-2278-3075**), Volume9, Issue 2 (Dec-2019), (pp- 1740- 1745)- **SCOPUS**.

[4] Sirisati Ranga Swamy "A Novel mechanism of fully homomorphic Encrypted data ", Journal of Emerging Technologies and Innovative Research (JETIR-2349- 5162), Volume6, Issue 4 (2019), (pp-309-320). **UGC APPROVED**.

[5] Sirisati Ranga Swamy, Dr. Sridhar Mandapati. "A Tabu Stochastic Diffusion Search Based Fuzzy scheduling in cloud", International Journal of Research in Advent Technology (IJRAT-2321-9637), Volume6, No 5 (2018), (pp.817-823). **UGC APPROVED – Published During Ph.D.**

[6] Sirisati Ranga Swamy, Dr. Sridhar Mandapati. "A Greedy Stochastic Diffusion Search Based Fuzzy scheduling in cloud", Journal of Artificial Intelligence Research & Advances (JoAIRA-2395-6720), Volume5, Issue 2 (2018), (pp.1-12). **UGC APPROVED – Published During Ph.D.**

[7] Sirisati Ranga Swamy, Dr. Sridhar Mandapati. "A Greedy Search aware Fuzzy scheduling in cloud", International Journal of Engineering Research in Computer Science and Engineering (IJERCSE-2394-2320), Volume5, Issue4 April (2018), (pp.53- 58). DOI:01.1617/vol5/iss4/pid57649- **UGC APPROVED – Published During Ph.D.**

[8] Sirisati Ranga Swamy, Dr. Sridhar Mandapati. "A Rule Selected fuzzy energy & security aware scheduling in cloud", Journal of Theoretical and Applied Information Technology (JATIT-1992-8645), Volume96, No10, Issue 31st May (2018), (pp.2826- 2837), **SCOPUS- Published During Ph.D.**

[9] Sirisati Ranga Swamy, Dr. Sridhar Mandapati (2017, Dec). "A fuzzy energy and security aware scheduling in cloud", International Journal of Engineering & Technology (IJET-2227-524X), Volume7, No1.2 Special Issue 2, (pp.117-124), DOI:10.14419/ijet.v7i1.2.9021, **SCOPUS-Published During Ph.D.**

[10] Thotapalli Siva Krishna, S. Ranga Swamy, M.Sridhar (APRIL 2017), " Multi Keywords Ranked Search with Efficiency Improvement Over Encrypted Data in CLOUDS", International Journal of Computer Science Engineering and Scientific Technology(IJCSEST), (ISSN: 6201-3454), Volume 9, Issue .1, APRIL 2017.

[11] Mandadi Jhansi, S. Ranga Swamy, M.Sridhar (Aug 2016), " A Novel Mechanism for Investigation of Selfish Node Detection in Mobile Adhoc Networks", International Journal of Computer Science Engineering and Scientific Technology(IJCSEST) (ISSN: 6201-3454),Volume 8, Issue .2, Aug 2016.

[12] Marneni Sravani, S. Ranga Swamy, M.Sridhar (Aug 2016), " Web Data Linking through Knowledge Based for Accessing Information Based on Entity Linking" International Journal of Computer Science Engineering and Scientific Technology(IJCSEST) (ISSN: 6201-3454),Volume 8, Issue .2, Aug 2016.

[13] Venkateswarlu Angadi, S. Ranga Swamy, M.Sridhar (Aug 2016), "Toward Efficient Cloud data Analysis Service For Large Scale Social Networks – A Survey on SAE ", International Journal of Engineering and Technology in Computer Science and Electronics (IJETCSE) (ISSN:0976-1353),Volume 23, Issue.4,Aug2016, Ref#: V23I4P24.

[14] Muchhu Raja Sekhar, S. Ranga Swamy, M.Sridhar (Aug 2016), "A Enhanced Trust Scheme for Resource Management in Multi Cloud Environment", International Journal of Engineering and Technology in Computer Science and Electronics (IJETCSE) (ISSN:0976-1353),Volume 23, Issue.4,Aug2016, Ref#: V23I4P25.

[15] Avudari Siva Krishna, S. Ranga Swamy, M.Sridhar (July 2016), "Attribute Based Encryption Technique for Privilege and Anonymity Access controlling in Cloud ", International Journal of Computer Science Engineering and Scientific Technology(IJCSEST) (ISSN: 6201-3454),Volume 8, Issue .1, July 2016.

[16] Venkata Rathnam Korukonda, S. Ranga Swamy, M.Sridhar (July 2016),"Malware Prevention using Two layers Protection", International Journal of Computer Science Engineering and Scientific Technology(IJCSEST) (ISSN: 6201-3454),Volume 8, Issue.1, July 2016.

[17] Nakka Yeleswara Rao, S. Ranga Swamy,(Oct 2015), "Data Mining Resolution on High Dimensional Data", International Journal of Research (IJR) (e-ISSN: 2348- 6848), (p- ISSN: 2348-795X),Volume2, Issue 10, Oct 2015. **UGC APPROVED**

[18] G. Ravi Teja, S.Ranga Swamy,(Oct 2015), "Rectifying Face and its Expressions Using LDN in Image Processing", International Journal of Research (IJR) (e-ISSN: 2348-6848), (p-ISSN: 2348-795X),Volume2, Issue 10, Oct 2015. **UGC APPROVED**

[19] Ayatulla Khan Md S, S. Ranga Swamy, M.Sridhar (Oct 2014), "Access Policy Consolidation for Event- Based Applications ", International Journal of Research in Information Technology (IJRIT), (ISSN:2001-5569),Volume 2, Issue 10, Oct 2014, Pg:457-465. **UGC APPROVED**

[20] Nitya Ramakrishna M, S. Ranga Swamy, M.Sridhar (Oct 2014), "Protecting Sensitive Labels Anonymity in Social Networks ", International Journal of Research in Information Technology (IJRIT), (ISSN:2001-5569), Volume 2, Issue 10, Oct 2014, Pg: 430-437. **UGC APPROVED**

[21] S. Ranga Swamy, N.Raja Sekhar Reddy,(2012), " Risk Chain Prediction Metrics for predicting fault proneness in software systems ",International Organization of Scientific Research Journal of Engineering (IOSRJEN), (e-ISSN:2250-3021),(pISSN:2278- 8719)Volume 2, Issue 8(Version-1), Aug 2012, Pg: 190-195- **UGC APPROVED**

CONFERENCES:

1. Dr. S. Ranga Swamy, "Auto-adaptative Learning for Machine Perception of Native accent using Deep Learning", 1st International Conference on Mathematical Modeling and Computational Science **(ICMMCS-2020), 14&15 August 2020, Thailand. -Advances in Intelligent Systems and Computing, <https://www.springer.com/series/11156> .**

2. Dr. S. Ranga Swamy, "An Energy-efficient PSO based Cloud Scheduling Strategy", 8 th International Conference on Innovations in Computer Science and Engineering **(ICICSE-2020), 28th & 29th August 2020, Gurunanak Institutions, Hyderabad. -Springer Proceedings- Lecture Notes in Networks and Systems, <https://www.springer.com/series/15179>**

3. Dr. S. Ranga Swamy, "An aviation delay prediction and recommendation system using Machine Learning Techniques", 1st International Virtual Conference on Integrated Intelligence Enable Networks & Computing **(IENC-2020), 05 to 07 September 2020, Institute of Technology, Gopeshwar.- Springer Proceedings-Algorithms-for-Intelligent-Systems, <https://www.springer.com/series/16171>**

4. Dr. S. Ranga Swamy, "An adaptive Deep learning model to forecast Crimes", 1st International Virtual Conference on Integrated Intelligence Enable Networks & Computing **(IENC-2020), 05 to 07 September 2020, , Institute of Technology, Gopeshwar. -Springer Proceedings-Algorithms-for-Intelligent-Systems, <https://www.springer.com/series/16171>**

5. Dr. S. Ranga Swamy, "A Hybrid Clinical data Prediction approach using modified PSO", 4th INTERNATIONAL CONFERENCE ON SMART COMPUTING AND INFORMATICS **(SCI-2020), 09&10 October 2020, Vasavi College of Engineering, Hyderabad. Springer Proceedings- Smart Innovation, Systems and Technologies, <https://www.springer.com/series/8767>**

6. Dr. S. Ranga Swamy, "Software defect prediction using optimized cuckoo search based nature inspired technique", 4th INTERNATIONAL CONFERENCE ON SMART COMPUTING AND INFORMATICS **(SCI-2020), 09&10 October 2020, Vasavi College of Engineering, Hyderabad. Springer Proceedings- Smart Innovation, Systems and Technologies, <https://www.springer.com/series/8767>**

7. Dr. S. Ranga Swamy, "Analysis of Hybrid Fusion- Neural Filter Approach to detect Brain Tumor", 6th INTERNATIONAL CONFERENCE ON Parallel, Distributed and Grid Computing(PDGC-2020) , 06 to 08 November 2020, **IEEE Proceedings- IEEE EXPLORE, Jaypee University , Himachal Pradesh. <https://ieeexplore.ieee.org/document/9315809>**

8. Sirisati Ranga Swamy, Dr. Sridhar Mandapati. "A Greedy Search aware Fuzzy scheduling in cloud", (IJERCSE-2394-2320), International Conference on Recent Advancement in Computer Science and Communication Technology **(ICRCSCTApril-2018), DhaneKula Institute of**

9. Sirisati Ranga Swamy, Dr. Sridhar Mandapati. " A fuzzy energy and security aware scheduling in cloud", (**IJET-2227-524X**), International Conference on Cognitive Informatics & Soft Computing (CISC-December2017), Vignana Bharathi Institute of Technology, Hyderabad.

<https://www.sciencepubco.com/index.php/ijet/article/view/9021>

10. S. Ranga Swamy, N.Raja Sekhar Reddy,(2012), International Conference on Computational Intelligence & Communication (ICCIC 2012), Chennai, Sponsored by IEEE. Title – “ Risk Chain Prediction Metrics for predicting fault proneness in software systems ”.

Faculty development programs (FDPs) Attended:

1. Attended AICTE-NPTEL One Week FDP Program(FDP) on “Cloud Computing”-Oct-2018
2. Attended Two week Faculty Development Program (FDP) on “Cyber Security, Crypt Analysis and Security for Physical Infrastructure”, Sponsored by the Department of Science & Technology (DST) under ICPS division, Govt. of India, from 09th Dec 2019 to 20th Dec 2019, Gurunanak Engineering College, Hyderabad.
3. Attended Three Days FDP Program(FDP) on “How to use Cloud Computing Effectively”- May 11 to 13- 2020, Conducted by Satyhabama University.
4. Attended Five Days FDP Program(FDP) on “Blockchain Technologies”-May 19 to 23- 2020, Conducted by LBRC, Vijayawada.
5. Attended Five Days FDP Program(FDP) on “machine learning and artificial intelligence & Internet of Things”-May 20 to 24- 2020, Conducted by LBRC, Vijayawada.
6. Attended One Week FDP Program(FDP) on “Advanced Deep Learning Techniques with Python”, July 27- 2020 to August 1-2020 Conducted Anurag Group of Institutions, Hyderabad.
7. Attended Two week Faculty Development Program (FDP) on “ADVANCED ARTIFICIAL INTELLIGENCE TECHNOLOGIES AND LEVERAGING OPEN FRAMEWORKS AND SDKs”, Sponsored by AICTE, from 22nd FEB to 6th MARCH 2021, JBIT, Hyderabad.
8. Attended Two week Faculty Development Program (FDP) on “QUANTUM COMPUTING”, Sponsored by AICTE, from 8th MARCH to 20th MARCH 2021, ACE, Hyderabad.

Faculty development programs (FDPs) Conducted:

1. conducted a one day Webinar on “Data Analytics: Innovative Research Methods and Data Analysis” on 23-05-2020
2. conducted a WEBINAR on “Machine Learning using R-Programming Language” on 06-06-2020
3. conducted A National Level Technical Workshop on – “Dart Programming Language”, associated with Brainovision solutions, Hyderabad, on 27-07-2020.
4. conducted 5 day faculty Development Program on “Blockchain Technology & its Applications”, associated with Brainovision solutions, Hyderabad, from 29-06-2020 to 03-07-2020.
5. conducted One week Faculty Development Program on – “Making a Scientific Research Documents using LaTeX”, from 13-07-2020 to 17-07-2020.
6. conducted A National Level One Week FDP on “Advanced Machine Learning Models using Python” from 03-08-2020 to 07-08-2020.

PATENT PUBLICATIONS:

- 1) Dr. S. Ranga Swamy " Title: IHY-PREDICTION: INTELLIGENT SYSTEM AND METHOD FOR ADVANCED HARVEST YIELD PREDICTION USING IOT BASED TECHNOLOGY”, Application Number: 201941054460, Date of Publication: 03/01/2020.
- 2) Dr. S. Ranga Swamy " Title: Social Media Sentiments: Profile based Mapping Social Media Sentiments Using Deep Learning Programming”, Application Number: 202041029812, Date of Publication: 21/08/2020.
- 3) Dr. S. Ranga Swamy " Title: Ergonomically designed Helmet with Natural Oxygen for prevention from air borne diseases & IOT for Health Monitoring”, Application Number: 202041032685, Date of Publication: 21/08/2020.
- 4) Dr. S. Ranga Swamy " Title: Effective Instructors feedback system for Education System and methods thereof”, Application Number: 202041034055, Date of Publication: 21/08/2020.
- 5) Dr. S. Ranga Swamy " Title: Ergonomically Designed Die casting table for safety and Quality Management”, Application Number: 202041034350, Date of Publication: 04/09/2020
- 6) Dr. S. Ranga Swamy " Title: “IOT malware analysis System with Deep Learning Approach”, Application Number: 202041042912, Date of Publication: 09/10/2020

Certification Programs:

1. Completed NPTEL 8 Weeks Certification Program on Cloud Computing-Oct-2018
2. Completed “AI For Everyone“, Certified by Deeplearning.ai – JUNE-2020
3. Completed “Linear Regression with NumPy and Python”, Certified by Coursera Project Network - JUNE-2020
4. Completed “Programming for Everybody (Getting Started with Python)”, Certified by University of Michigan- - JUNE-2020
5. Completed “Build a Simple App in Android Studio with Java”, Certified by Coursera Project Network - JUNE-2020
6. Completed “Transacting on the Blockchain”, Certified by INSEAD-MAY-2020
7. Completed “Logistic Regression with Python and Numpy”, Certified by Coursera Project Network - MAY-2020
8. Completed “Introduction to Data Science in Python”, Certified by University of Michigan-MAY-2020
9. Completed “Classical Cryptosystems and Core Concepts”, Certified by University of Colorado System- MAY-2020